





Evolution of Pharmaceutical Utilization Management

- St. John Health System 1998-2000
 - Vision 2000: Pharmacy and Drug Therapy Management Initiatives
- MUSC Medical Center 2000-2010
 - Pharmaceutical Outcomes Management Program
- Duke University Health System 2010-present
 - Pharmacy Utilization Management Program



Discussion Points

- Strategy to optimize the supply chain and utilization
- Structures and resources required for success
- Gaining organizational commitment
- Tracking, reporting and communicating
- · Impact on organizational quality and efficiency



About Duke University Health System (DUHS)

- Duke University Hospital
 - Tertiary and Quaternary Care
 Level 1 Trauma Center
 National Cancer Institute

 - 979 Inpatient Beds
 Over 43,000 Admissions (FY19)
- Duke Regional Hospital
- 369 Inpatient Beds
 Over 17,000 Admissions (FY19)
- Duke Raleigh Hospital
- 186 Inpatient Beds
 Over 9,600 Admissions (FY19)





Center for Medication Policy

- Collects, analyzes, and disseminates medication use information across DUHS
- Collaborates with multidisciplinary groups to influence policies for the purpose of positively impacting patient care
- Integrates activities with departmental clinical, safety, informatics, administrative, procurement and drug distribution systems

Formulary Management **Medication Policy Oversight**

Medication Utilization Evaluations Research and Teaching **Drug Shortages**

Clinical Decision Support Drug Info References

DI Consult Service

REMS Program Management PUMP Project Management

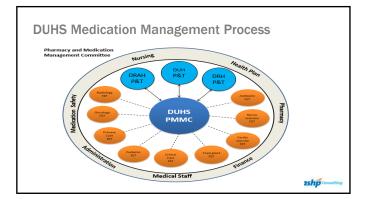
ashp

Medication Management Process

- Formulary Evaluation Team (FET) Model
 - Subcommittee to the health system P&T (DUHS PMMC)
 - Medication Policy pharmacist serves as the FET Facilitator
 - Co-Chairs

 - Attending-level physician (serves as voting member of health system P&T)
- **Functions**
 - · Meets on at least a quarterly basis
 - Recommends formulary decisions based on individual drug or class reviews
 - Develops or reviews guidelines to promote best practices
- Completes MUEs to optimize medication use process across DUHS



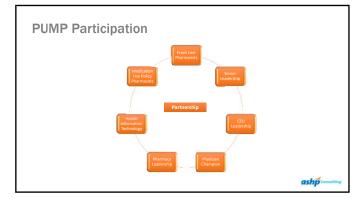


What is PUMP?

- Duke University Health System PUMP
 - P: Pharmaceutical
 - U: Utilization
 M: Management
 P: Program
- Program Goals

 - Improve the medication use process across the health system
 Assess opportunities to reduce pharmaceutical costs
 Drug Pricing
 Operations
 Formulary Management





Three Core Questions for PUMP

- Drug Pricing:
 - · How much are we paying?
- Operations:
 - · How much are we buying?
- Formulary Management:
 - How do we use this?

ashp

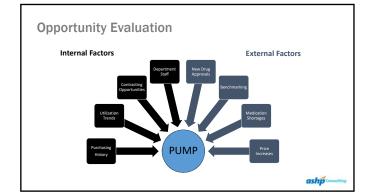
Strategic Approach to Drug Spend

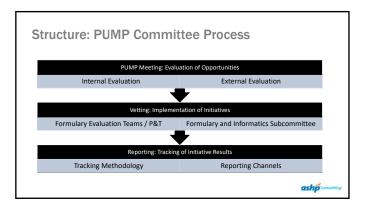
- Drug Pricing

 - Identifying "Top 200"
 Contracting implications
 Minimizing WAC spend
- Operations
 - Purchasing vs. utilization ("waste factor")
 Prioritizing operations projects
- Formulary Management

 - Biosimilars
 Dosing and utilization guidelines
 Formulary addition requests







Collaboration with Pharmacy and Medical Staff

- Formulary Evaluation Team Model
 - Clinical pharmacist and attending physician serve as the two co-chairs
 - $\bullet \ \ Other\ clinical\ pharmacists\ and\ physicians\ across\ health\ system\ are\ voting\ members$
- Support from Physicians
 - Built-in credibility

 - Keeping quality and patient outcomes as the main focus
 Support and education around recently implemented or in-progress initiatives
- Promotion of PUMP Initiatives
- Therapeutic interchange programs
 Enforcement of restrictions or dosing guidelines



Engagement of Front-Line Pharmacy Staff

- Consistent Communication
 - · Operations Initiatives:
 - · Provide rationale for any process changes
 - Formulary Management Projects:
 - Hardwiring into verification workflows
- **Expected Job Results**
 - Components of yearly evaluation for pharmacy staff
 - "Financial Quadrant" of the Pharmacy Department Balanced Scorecard $\,$
 - Percentage formulary compliance post-verification Total savings associated with PUMP initiatives



PUMP Meetings

- · Meet on monthly basis for one hour
- Committee members includes
 - Pharmacy leadership at system hospitals

 - Chief Pharmacy Officers
 Associate Chief Pharmacy Officers
 Clinical and Operational Pharmacy Managers
 - Pharmaceutical Contracting and Procurement
 - · Center for Medication Policy



Projects and Opportunities Reviewed

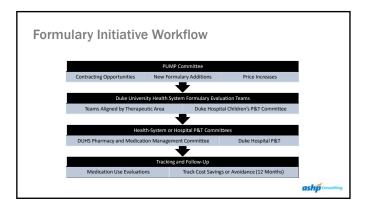
- Tracking Document Review
- Drug Pricing
 - WAC expenditures and GPO opportunity
 Pricing changes or vendor offers
- Operations

 - Repackaging opportunities
 Compounding projects
- Formulary Management

 - Utilization trends and benchmarking
 MUEs
 Drug class reviews



Operations Initiative Workflow Present current spend data and savings opportunity Evaluate alternatives to reduce expenditures Collaborate with area managers to assess feasibility Obtain any data to support extended BUD Engage clinicians to address any issues FIS = Formulary and Informatics Subcommittee Evaluation of line-item extension and optimization requests On approval, coordinate go-live with Informatics and Operations Track savings on a monthly basis for 1 year Monitor for alternative ways to decrease spend ashp



Hardwiring PUMP Initiatives Into Workflows

Benefits on Quality and Efficiency

- · Provides a formal, systematic process for:
 - Identifying opportunities within department
 Implementing cost savings initiatives
 Measuring progress after go-live
- Framework to specifically describe successes to hospital and health system leadership
- Foundation to engage and collaborate with hospital and health system leadership on targeted projects



Organizational Commitment

- Support from departmental leadership
 - Setting and defining goals associated with program
- Partnership with other health-system pharmacy stakeholders
- Integration of activities into formulary / P&T process
 - · Benefits of medication policy pharmacists
- Leveraging clinical decision support with the EHR
- Champions among physician and institutional leadership

ashp

When Determining Metrics For Tracking

- · What is the anticipated impact?
 - Cost savings vs. cost avoidance
- What methodology to use?
- · Total spend for medication(s) within initiative
- Broader basis: Inpatient drug spend/day
- Initiative-dependent:
 Contracting and Pricing: Cost per unit
 Waste Minimization: Total units purchased
 Formulary: May influence either
- Importance of consistency and transparency



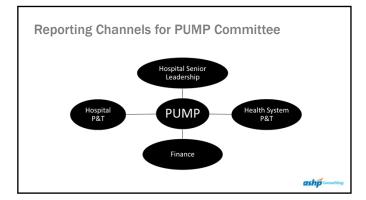
Accountability and Tracking

- PUMP Meeting: Expected cost savings generated
- Initiative Assigned to Group Based on Project Type
 - Drug Pricing: Contracting and procurement
 - Operations: Manager(s) over affected area(s)
 - Formulary: Formulary evaluation team -> clinical staff
- Each initiative is tracked monthly for 12 months



Example of Tracking Initiative ashp

DUHS PUMP TRACKING DOCUMENT FY2020							
	humatons	Group	Tracking Start	Tracking Metric has Surregel/Involvence	Last Update	Samp FY2020	Seeings (Fotal)
Ingliniarmed Projects							
Passerent Paints	_					_	
Proposed Projects Frequency System General	DateRepositions	Central Medificials	Sec-9	Danger Species Amage Specifican Festing C Monte	Ae-20	\$20,000	KNEW Charles
	Danfeporalisas		Nac27				
To-Figure Ingroad Connect Floring	Disfegnsfleig	Posseneri	Plan-20	Dangrin Spindus Awage Filiparen Spindton Flexical STRonto	Arrill	M0.300	MODEL North
TOTAL PROCUREMENT PROJECTS						A290.000	
Operations Projects	_		_		_	_	
Operations Property Colomos Ingents Vendo-FlavelChorg	DisFeguralistop	Dromp.PD	Aur-E	Danier in Samples Aurage Sampline Pressur S' Monte	32.0	10.00	Indexes \$2000.HER
Domesia Sette 25 Hair	Dis	Carried Meditals	Sec S	IngOvernous tempo personness Crises	Ap 8	A10.000	ESTABLISHED AND A
System Systems Despired Tale	Dásfiagosiffaksó:	Cenero Metifolio	Sep-10	Trial Sylvetre traction Expenditures		\$200,000 \$200,000	FIELDOCT morely
	Danfegnaffalg	Centerlo/NetPolico	Apr-10	Total Ephedon Haydon Expenditures	No.33		ESSECURITY MONTHS
TOTAL EPERATIONS PROJECTS						R250,000	
Mileston Projects	_		_		_	_	
Inglementation of Cuspation TEGET Regimen	Dás	Opportence	Acrit	Change in Camus res Matchaire Spanifes Average from Previous SC Planta	Aer/75	\$400.000	NEED Transfel
Append NO Months	Dáy	Carrier to Medicator Policy	Op-tt	Danger Old House Stand of Awage for Person Stands	ie-3	900 300	MOD JOS Chrombal
Loon Madiomia Finanti		Center to Medicator Policy	No-ti	Opportunity ISA Seadon American Person Stanto	4e-2)		MC 300 Beauty)
TOTAL SUIS PARIOS PROJECTS	100-020-00	GH II WALLES	-	Cagarinating parts and control control	-	#1.EU 333	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa
DOMESTICAL PROPERTY.						*(#10,007	
THE R. P. LEWIS CO., LANSING, SHIPP, LANSING, SAN, LANSING	TOTAL CLUSING		_			A1 000 000	
THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NAMED IN COLUM	HUMETT (NOW					RC-02,310	
TOTAL PROCUREMENT-OPERATORS-LITELIA	HOME PYZHOS					K2.102.333	



Summary

- PUMP describes a systematic process with the goals of managing drug spend and achieving cost savings
- Opportunities are assessed through three areas: drug pricing, operations, and formulary management
- Engaged departmental management and support from senior leadership are crucial to success
- A well-defined tracking methodology allows pharmacy to quickly and accurately report out successes

ashp Consulting

Key Takeaways: PUMP	
ney lakeaways. I olili	
Requirements for Success:	
Robust medication policy program within department	
 Integration of initiatives into formulary evaluation process Development of and collaboration with physician champions 	
Support from departmental leadership across the health system	
Promote engagement of front-line staff (both operations and clinical)	
Leveraging clinical decision support to facilitate adherence to PUMP initiatives	
Concise and consistent tracking mechanism to monitor progress Stabilish reporting phannels to beguital and health system soniar leadership.	•
 Establish reporting channels to hospital and health system senior leadership Maintain credibility by keeping quality and patient outcomes the main focus 	
ashpromoting	
	_
Q & A	
ashp conditing	
usip	
	1
ashp Consulting	
Consulting	